

## Total Recall Learning Systems

# Learning with Maximum Retention

## Today's (Non)-Learning

The largest part of today's training time and expense is wasted:

- 65% of learned material is forgotten after one day.
- 75% is forgotten by the end of one week.
- 80% is forgotten by the end of one month.

Forgetting is natural. Yet, conventional training methods ignore the process of forgetting.

*What part of the training can participants afford to forget?*

## The Solution

Total Recall Learning Systems (TRLS) is the solution to learning ... and forgetting. TRLS combines the findings of memory psychologist Dr. Hermann Ebbinghaus with multimedia software technology.

## Features & Benefits

Total recall ability of material increases workforce competency and eliminates retraining.

System delivers small bits of information, ensuring learner's retention.

Customized content guarantees applicability to training needs.

Easy updates to program content reduce training costs.

Interactive, multi-sensory approach engages learner.

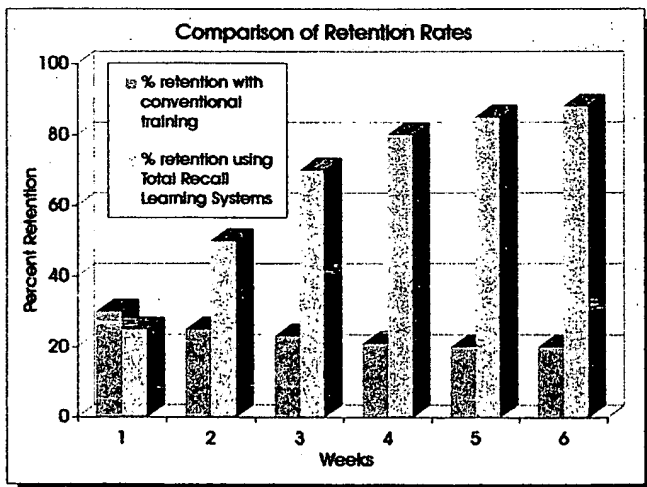
Instant feedback and reinforcement motivates learner.

Statistics module tracks and analyzes learner's progress.

**Correct response**

| Level                  | # of Items | % Correct |
|------------------------|------------|-----------|
| None                   | 0          | 0.0%      |
| Missed                 | 64         | 0.0%      |
| Level 1                | 20         | 80.0%     |
| Level 2                | 8          | 75.0%     |
| Level 3                | 22         | 81.8%     |
| Level 4                | 88         | 82.9%     |
| Level 5                | 33         | 88.2%     |
| Completed              | 1548       |           |
| Total Items            | 2000       |           |
| Correct this Session   | 7          | 77.8%     |
| Incorrect this Session | 2          |           |

**Incorrect response**



The Comparison of Retention Rates compares retention of learned material using TRLS technology to retention rates of conventional training approaches (stand-up training, video, conventional multimedia applications).

## Execution

TRLS multimedia software delivers training systematically in small, absorbable bits of information. A sophisticated software algorithm performs staggered, time-delayed repetitions to precisely pinpoint forgotten material.

Transparent to the user, a complex process monitors learner's retention at exact intervals. Forgotten material is returned to the learning process until it is mastered.

**Total  
Recall**  
Learning Systems

## Implementation

... is easy. Once your training needs are established, TRLS technology is implemented quickly. Content material is entered into the system and provided to the learners. Learners follow either a set schedule or progress at their own pace.

## Recall Rates

TRLS yields unprecedented recall rates when compared to conventional training approaches. Without increasing total training time, recall rates of learned material multiply as training is disbursed over a multi-week period.

| Week | Hours/Week | % Short-Term Recall | % Long-Term Recall |
|------|------------|---------------------|--------------------|
| 1    | 40         | 30                  |                    |
| 2    |            | 25                  |                    |
| 3    |            | 23                  |                    |
| 4    |            | 21                  |                    |
| 5    |            | 20                  |                    |
| 6    |            | 20                  | 20                 |

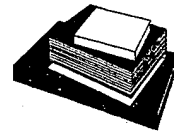
**Conventional Training:** Recall after a one-week (40 hrs.) training course. 40 hours yield minimal results.

| Week | Hours/Week | % Short-Term Recall | % Long-Term Recall |
|------|------------|---------------------|--------------------|
| 1    | 10         | 25                  |                    |
| 2    | 10         | 50                  |                    |
| 3    | 7          | 70                  |                    |
| 4    | 7          | 80                  |                    |
| 5    | 3          | 85                  |                    |
| 6    | 3          | 88                  | 80                 |

**TRLS:** Effects of forgetting are nearly eliminated after a six-week (40 hrs.) distributed training approach.

## Application

TRLS is best suited in situations where the cost of failure to remember is high or where the need to learn thoroughly and quickly is extensive.

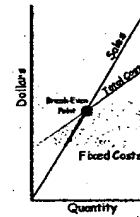
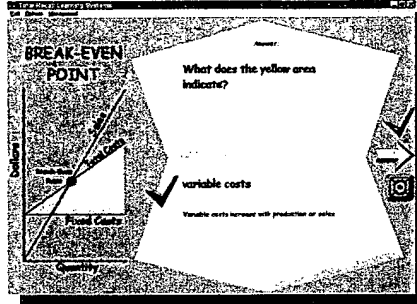


Determine training needs.

Divide content into small, absorbable bits of information.



Info Info Info  
Info Info Info  
Info Info Info



Audio

Add multimedia components to enhance learning process.

Set precise training schedule.

| Week | Hours/Week | % Short-Term Recall | % Long-Term Recall |
|------|------------|---------------------|--------------------|
| 1    | 10         | 25                  |                    |
| 2    | 10         | 50                  |                    |
| 3    | 7          | 70                  |                    |
| 4    | 7          | 80                  |                    |
| 5    | 3          | 85                  |                    |
| 6    | 3          | 88                  | 80                 |

Monitor learner's progress.

| Statistics             |            |           |
|------------------------|------------|-----------|
| Level                  | # of Items | % Correct |
| New Material           | 0          | 36.3%     |
| Level 1                | 44         | 51.7%     |
| Level 2                | 35         | 69.2%     |
| Level 3                | 8          | 75.0%     |
| Level 4                | 22         | 80.9%     |
| Level 5                | 88         | 83.9%     |
| Level 6                | 33         | 88.1%     |
| Completed              | 1548       |           |
| Total Items            | 1800       |           |
| Correct this Session   | 7          | 77.8%     |
| Incorrect this Session | 2          |           |

Complement current training.



Utilize TRLS as stand-alone training tool.



Representative industries include educational institutions, the military, finance and banking, fire and police departments, the airline industry, and services.

## Cost

Cost depends on the size and complexity of the training program desired. The cost of implementing a TRLS system is just a fraction of the cost of other multimedia training tools.

Customized training content is integrated into separate object modules to allow easy updates of material in the future.

## Contact

We are interested in working with you to deliver a highly effective training program which meets the learning needs of your organization.

**Total Recall Learning Systems**  
808 Fourth Ave, Suite 302  
San Diego, CA 92101  
(619) 569-7110

**Total Recall**  
Learning Systems